Redefining distribution.℠

ANIXTER

Belden Cabling Products

Belden

Redefining distribution℠

ANIXTER

Anixter brings you the Belden Solution

Belden concentrates on manufacturing high quality cable products for ever changing applications in constantly changing markets.

All Belden products: data communications, industrial data solutions and fibre optic cable, are built on a philosophical foundation of quality, meeting your requirements 100% of the time. This means to the cable user that every type of Belden cable product receives the same committed attention. Belden does not only offer you the cable for the systems on the market today but they are ready to serve you the cabling systems for the future.

Belden and Anixter work closely to offer the wide range of cable and fibre. Anixter is a global, value added distributor of structured cabling and networking products. Anixter and Belden aspire to product leadership and customer bonding. The relationship focuses on the needs and requirements of customers and we have effective processes in order to meet the customers demands.

ABOUT ANIXTER

Founded in 1957, Anixter is the world's leading global distributor of structured cabling and networking products required for communications infrastructures solutions, including distribution services and logistics management. Anixter has over 170 locations worldwide, with over 30 locations in Europe.

Belden

CONTENTS

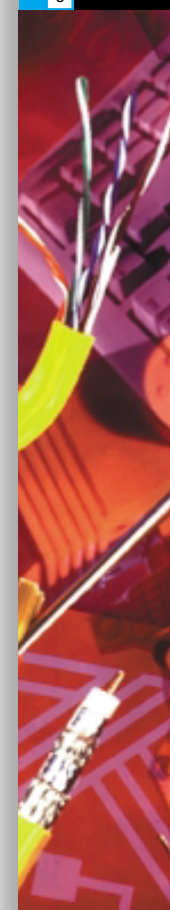
PAGE

4 **DATA CABLE**
UTP Cable
Category 3
Category 5E
Category 6
FTP/SFTP Cable
Category 5E
Category 6
Category 7

6 **INDUSTRIAL DATA**
Typical Application
Fieldbus (IEC 61158)
Profibus IMS & DP
Interbus
Mini-Map
ControlNet
DeviceNet
LonWorks
ModBus
RS-485
RS-422
RS-232

13 **OPTICAL FIBRE**
Interconnection Indoor cable
Distribution Indoor cable
"INTEX" Distribution In/Outdoor cable
Single Loose Tube Out/Indoor cable

15 **TECHNICAL INFORMATION**
Equivalency Chart for American Wire Gauge (AWG)
Comparative Properties of Rubber Insulations
Comparative Properties of Plastic/Insulating and Jacket Compounds
Comparative Properties of Fluoropolymers/Insulating and Jacket Compounds



DATA/VOICE CABLE UTP

Category 3 Multipair Telephone Cables

PVC/LSOH

Anixter No.	Belden No.	Description
CM-02524UTP-3B	M160 25/0.5	25 Pair UTP 100OHM PVC INSULATED
CM-05024UTP-3B	M170 50+E/0.5	50 Pair UTP 100OHM PVC INSULATED
CM-10024UTP-3B	M170 100+E/0.5	100 Pair UTP 100OHM PVC INSULATED

Also available above multipair cables in LSOH jacket

Category 5E UTP Cable

24 AWG solid bare copper, polyolefin insulated, twisted pair Category 5 enhanced performance, available in boxes and reels

PVC

Anixter No.	Belden No.	Description
CM-00424UTP-5BE	1583E	Cat 5E, 24 AWG, 4 pair UTP, Reel, Datatwist 5
CM-00424UTP-5UBE	1583E	Cat 5E, 24 AWG, 4 pair UTP, Box, Datatwist 5
CM-00424UTP-5BE-D	1700E	Cat 5E, 24 AWG, 4 pair UTP, Grey, Reel, Datatwist 350
CM-00424UTP-5BE-06-D	1700E	Cat 5E, 24 AWG, 4 pair UTP, Blue, Reel, Datatwist 350
CM-00424UTP-5UBE-D	1700E	Cat 5E, 24 AWG, 4 pair UTP, Grey, 305m box, Datatwist 350

LSZH

CMZ-00424UTP-5UBE	1583ENH	Cat 5E, 24 AWG, 4 pair UTP, Grey, Box, LSZH, Datatwist 5
CMZ-00424UTP-5BE	1583ENH	Cat 5E, 24 AWG, 4 pair UTP, Grey, Reel, LSZH, Datatwist 5
CMZ-00424UTP-5BE-D	1700ENH	Cat 5E, 24 AWG, 4 pair UTP, Grey, Reel, Datatwist 350

SIAMESE

CMZ-00824UTP-5BE	1667ENH	Cat 5E, 24 AWG, 2x4 pair UTP, Grey, Reel, LSOH

Category 6 UTP Cable

24 AWG and 23 AWG solid bare copper, polyolefin insulated, 4 twisted pairs-each with adjoined singles, ripcord, sequentially marked at 2 foot intervals. Category 6 performance rating (Compliant with last draft of standard).

PVC

Anixter No.	Belden No.	Description
CM-00423UTP/B-6B	7965E	Cat 6, 23 AWG, 4 pair UTP, Grey, Reel, Not bonded
CM-00423UTP-6B	7812E	Cat 6, 23 AWG, 4 pair UTP, Grey, Reel, Bonded
CM-00423UTP-6UB	7812E	Cat 6, 23 AWG, 4 pair UTP, Grey, Box, Datatwist 350
CM-00424UTP-6B	1872A	Cat 6, 24 AWG, 4 pair UTP, Grey, Reel, Mediatwist
CM-00424UTP-6UB	1872A	Cat 6, 24AWG, 4 pair UTP, Grey, Box, Mediatwist
CM-00424UTP-6B-06	1872A	Cat 6, 24 AWG, 4 pair UTP, Blue, Reel, Mediatwist

LSZH

CMZ-00423UTP/B-6B	7965ENH	Cat 6, 23 AWG, 4 pair UTP, Grey, Reel, Not bonded
CMZ-00423UTP-6UB	7812ENH	Cat 6, 23 AWG, 4 pair UTP, Blue, Box, LSZH, Datatwist 350
CMZ-00423UTP-6B	7812ENH	Cat 6, 23 AWG, 4 pair UTP, Blue, Reel, LSZH, Datatwist 350

DATA CABLE FTP/SFTP

Category 5E FTP Cable

24 AWG solid bare copper, foiled, polyolefin insulated, twisted pairs. Overall Beldfoil® shield with drain wire ripcord, sequentially marked at 2 foot intervals. Category 5 enhanced performance rating

PVC

Anixter No.	Belden No.	Description
CM-00424FTP-5BE	1633E	Cat 5E FTP, 4 pair, 24 AWG, PVC, Grey, Reel
CM-00424FTP-5UBE	1633E	Cat 5E, FTP, 4 pair, 24 AWG, Grey, 305 mt box
CMZ-00424FTPD-5B	1730A	Cat 5 FTP, 4 pair, 24 AWG, PVC, Grey, Reel, Datatwist 100
CMZ-00424FTPD-5B-06	1730A	Cat 5 FTP, 4 pair, 24 AWG, PVC, Blue, Reel, Datatwist 100

LSZH

CMZ-00424FTP-5BE	1633ENH	Cat 5E FTP, 4 pair, 24 AWG, LSZH, Grey, Reel

SIAMESE

CMZ-00824FTP-5BE	1668ENH	Cat 5E, FTP, 2 x 4 pair, 24 AWG, LSOH, Grey, Reel

Category 5E SFTP Cable

24 AWG solid bare copper shielded, twisted pairs. Overall Beldfoil® shield with drain wire ripcord, sequentially marked at 2 foot intervals. Category 5 enhanced performance rating for REEL versions

PVC

Anixter No.	Belden No.	Description
CM-00424SFTP-5BE	1633E+	Cat 5E SFTP, 24 AWG, PVC, Grey, Reel

LSZH

CMZ-00424SFTP-5BE	1633ENH+	Cat 5E SFTP, 4 pair, 24 AWG, LSZH, Grey, Reel

Category 6 FTP Cable

PVC

Anixter No.	Belden No.	Description
CM-00423FTP-6B	7860E	Cat 6 FTP, 4 pair, 23 AWG, Grey, Reel

LSZH

CMZ-00423FTP-6B	7860ENH	Cat 6 FTP, 4 pair, 23 AWG, LSZH, Reel

Category 6 SFTP Cable

23 AWG Solid bare copper shielded, twisted pairs: Overall Beldfoil® shield with drain wire ripcord

PVC

Anixter No.	Belden No.	Description
CM-00423SFTP-5BE	7860E+	Cat 6, SFTP, 4 pair, 23 AWG, PVC, Grey, Reel

LSOH

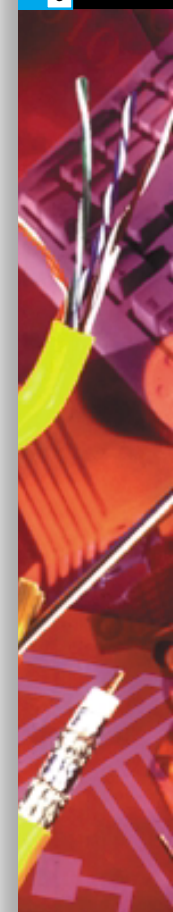
CMZ-00423SFTP-5BE	7860ENH+	Cat 6, SFTP, 4 pair, 23 AWG, LSOH, Grey, Reel

Category 7 ISTP Cable

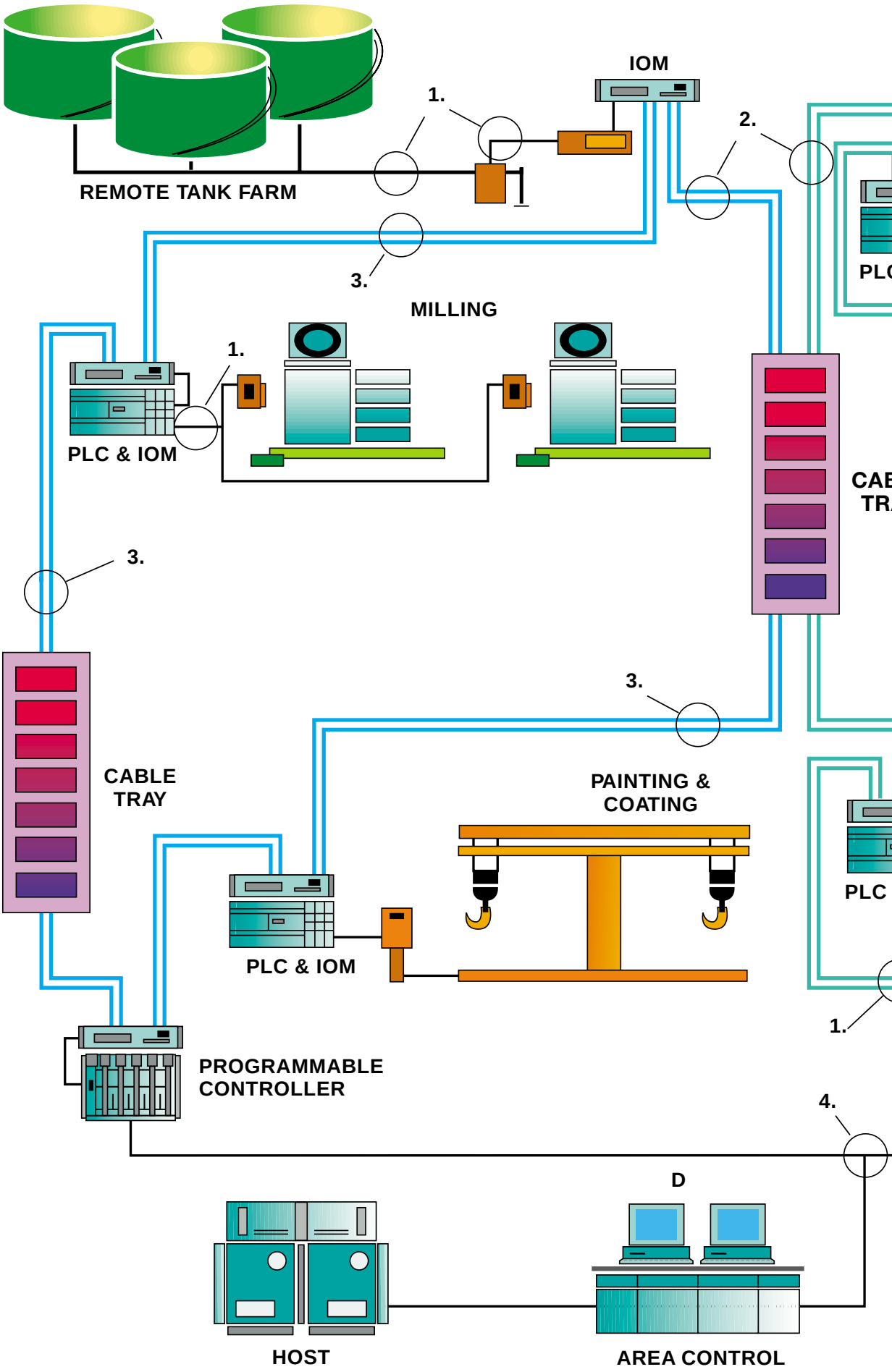
23 AWG solid bare copper, polyolefin insulated, 4 twisted pairs-each with adjoined singles (individually shielded), ripcord, sequentially marked at 2 foot intervals. Category 7 performance rating.

LSZH and SIAMESE

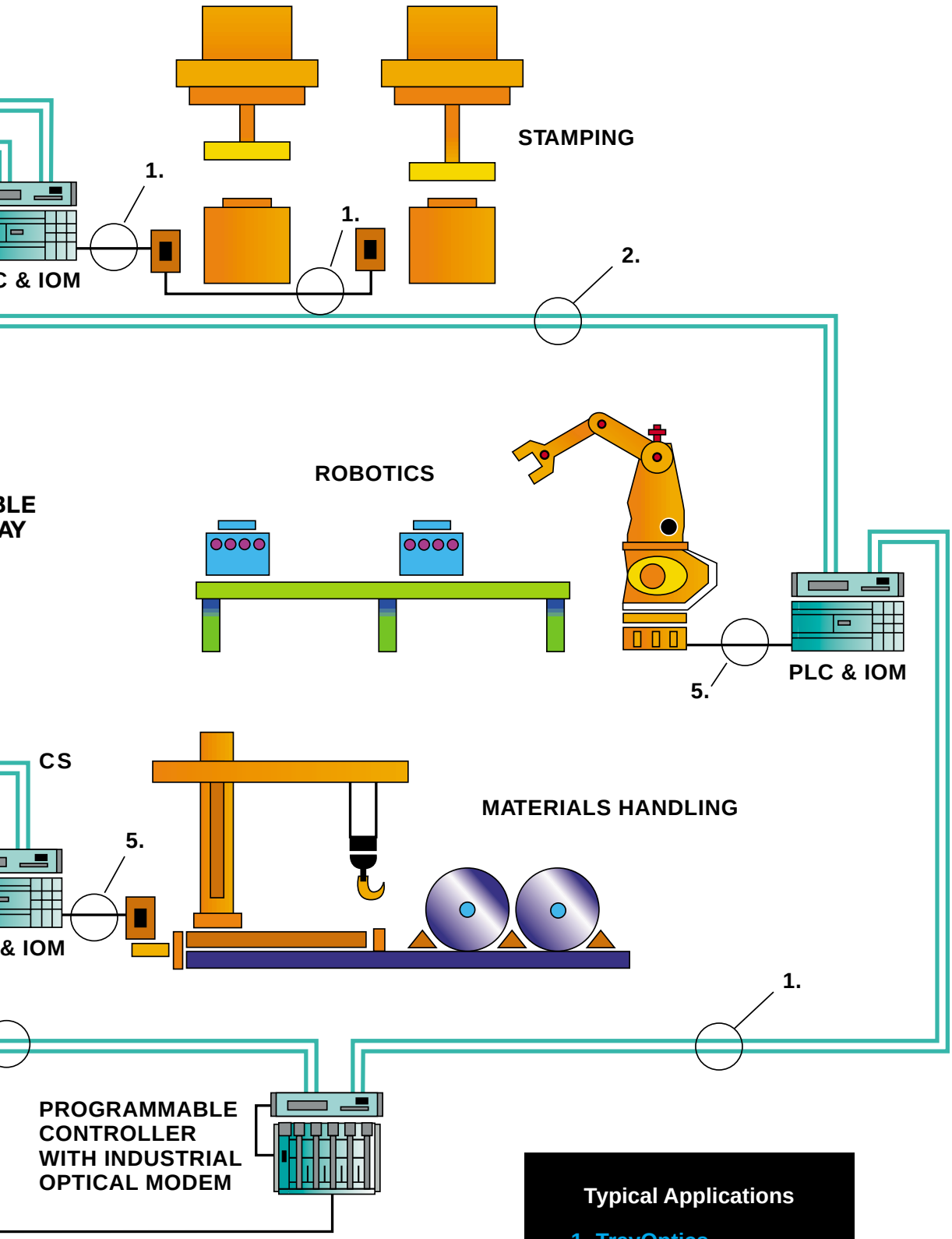
Anixter No.	Belden No.	Description
CMZ-00423STP-7B	1885ANH	Cat 7 FRNC, 4 pair, 23 AWG, 600 mhz, Reel
CMZ-00823STP-5BE	1887ENH	Cat 7, FRNC, 2 x 4 pair, 23 AWG, 600 mhz, Reel



INDUSTRIAL DATA - ANIXTER BRINGS YOU THE

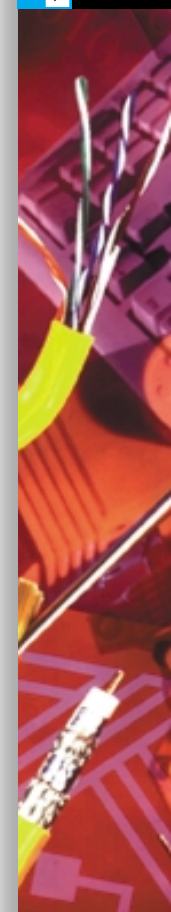


BELDEN SOLUTION



Typical Applications

1. TrayOptics
2. DataTray/TrayOptics
3. PLTC Cables
4. Industrial Twinax
5. DeviceBus



INDUSTRIAL DATA

Fieldbus (IEC 61158) for Profibus PA/Fieldbus Foundation/Worldfip

Polyolefin insulated cable with Z-Fold Beldfoil screen and orange PVC jacket.
The cables are intended for Fieldbus Foundation/ WorldFip/Profibus PA.

PVC

Anixter No.	Belden No.	Description
B3076F	3076F	1pr, 18 AWG
B3077F	3077F	1pr, 22 AWG
B3078F	3078F	High speed, 22 AWG, 1 pair

LSNH (available in blue or orange)

TBA	3076ENH	1 pair, 18 AWG, LSNH
TBA	3077ENH	1 pair, 22 AWG, LSNH,Polyolefin Insulated, LSNH

LSNH with Steel Wire Armour

TBA	3076ELS	1 pair, 18 AWG, LSNH with SWA
TBA	3077ELS	1 pair, 22 AWG, LSNH with SWA
TBA	3078ELS	1 pair, AWG, LSNH with SWA

Profibus IMS & DP

Standard

22AWG one pair Cellular Polyethylene insulated with a Z-Fold Beldfoil and 65% tinned copper braid, PVC grey jacket.

PVC

Anixter No.	Belden No.	Description
B3079A	3079A	Solid, 22 AWG, 1 pair

Stranded

22 (7 x 30) one pair Cellular Polyethylene insulated with polyester and aluminium foil and 65% tinned copper braid cabled together with 2 strength members under a purple PVC jacket. The European choice for connecting Profibus DP installations due to the stranding the cable is capable of a small bending radius and has less re-fit of broken conductors at termination points.

Anixter No.	Belden No.	Description
B3079E	3079E	Stranded, 22 AWG, 1 pair

Interbus

Cables for standard Interbus-s protocol. As designed for Phoenix contact.

Power+Data pairs

Anixter No.	Belden No.	Description
B3119A	3119A	24 AWG, Stranded, 3 pair, data + 18 AWG stranded 3 conductors power, Green PUR jacket

Data pairs

Anixter No.	Belden No.	Description
B3120A	3120A	24 AWG, Stranded, 3 pair, Grey PUR jacket

Mini-Map/IEEE 802.7

RG-6/U Type

Anixter No.	Belden No.	Description
B3131A	3131A	Coax, 18 AWG, Solid PVC, Grey

Sweep tested broadband RG-11/U coax cable with Quad shield.

RG-11/U Type

Anixter No.	Belden No.	Description
B3094A	3094A	Coax, 14 AWG, Solid PVC, Grey

For plenum space, outdoor and direct burial.

Teflon® RG-11/U Type

B3095A	3095A	Coax, 14 AWG, Fluorocopolymer, Grey

ControlNet

These coaxes are the base cables for the ControlNet systems they are available in standard PVC, a flexible version and a Teflon (plenum version). A CPE jacket or a blue PVC jacket are optional.

PVC version

Anixter No.	Belden No.	Description
B3092A	3092A	Coax, 18 AWG, PVC Grey

Flexible version

B3092F	3092F	Coax, 20 AWG, PVC Black

Teflon® version

B3093A	3093A	Coax, 18 AWG, Fluorocopolymer, Grey

DeviceNet

Trunk Cable

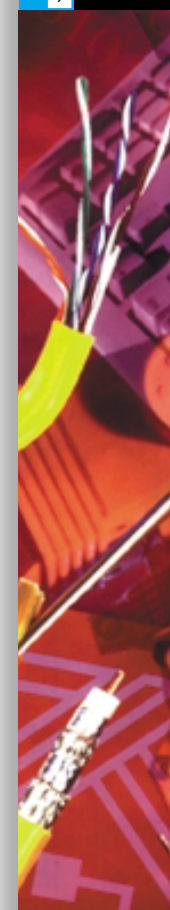
This group of cables is intended for Open DeviceNet as promoted by ODVA. The cables consist of a 15AWG power pair and a 18AWG data pair.

Anixter No.	Belden No.	Description
B3082A	3082A	18 AWG, 1 pair data + 15 AWG, 1 pair power, Light Grey, PVC Jacket
B3083A	3083A	18 AWG, 1 pair data + 15 AWG, 1 pair power, Yellow CPE Jacket

Drop Cable

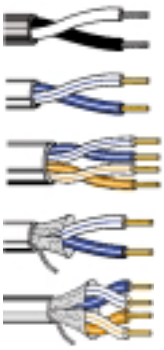
This group of cables is intended for Open DeviceNet as promoted by ODVA. The Cables are meant as drop cables. They are also extremely suitable for all RS-485 application such as CAN that need power and data through the same cable.

Anixter No.	Belden No.	Description
B3084A	3084A	22 AWG, power, 24 AWG, 2 pair, Light Grey, PVC Jacket
B3084F	3084F	22 AWG, power, 24 AWG, 2 pair, flex. Light Grey, PVC Jacket
B3085A	3085A	22 AWG, power, 24 AWG, 2 pair, Yellow, CPE Jacket



INDUSTRIAL DATA

LonWorks



Unshielded cables for use in Echelon LonWork systems. Most of the cables are standard halogen free and are therefore suitable for use indoor and outdoor. These are special Belden cables which are made to order.

Standard PVC

Anixter No.	Belden No.	Description
B8471	8471	Standard, 16 AWG, 1 pair chrome PVC

LSNH

B8471-LSZH	8471NH	16 AWG, 1 twisted pair, unshielded, LSNH
B7701-LSZH	7701NH	Unshielded, 22 AWG, 1 pair, white LSNH
B7702-LSZH	7702NH	Unshielded, 22 AWG, 2 pair, white LSNH

LSNH With Steel Wire Armour

B8471-LSNH-SWA	8471LS	Standard, 16AWG, 1 twisted pair, LSNH, with SWA
TBA	7701LS	Unshielded, 22AWG, 1 pair, white LSNH, SWA
TBA	7702LS	Unshielded, 22AWG, 2 pair, white LSNH, SWA

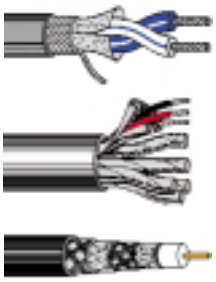
Shielded LSNH

B7703-LSNH	7703NH	Shielded, 22 AWG, 1 pair, white LSNH
B7704-LSNH	7704NH	Shielded, 22 AWG, 2 pair, white LSNH

Shielded With Steel Wire Armour

TBA	7703LS	Shielded, 22 AWG, 3 pair, white LSNH, SWA
B7704-LSNH	7704LS	Shielded, 22 AWG, 4 pair, white LSNH, SWA

ModBus



PVC

Anixter No.	Belden No.	Description
BYM29560	YM29560	9841+, 24 AWG, Grey PVC
B8777	8777	22 AWG, 3 pair, chrome PVC

LSNH

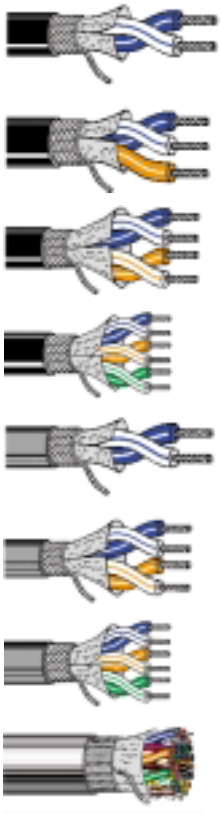
B8777-LSNH	8777NH	Shielded foiled cable, 22AWG, 3 pair

LSNH with Steel Wire Armour

B8777-LSNH-SWA	8777LS	Shielded foiled cable, 22AWG, 3 pair with SWA

INDUSTRIAL DATA

EIA RS-485



Hart

The approved cable for Hart automated systems. 22AWG paired cables with Datalene® insulation and an overall Z-Fold Beldfoil® 90% braid and a black sunlight resistant PVC jacket.

Anixter No.	Belden No.	Description
B3105A	3105A	22 AWG, 1 pair
B3106A	3106A	22 AWG, 1.5 pair
B3107A	3107A	22 AWG, 2 pair
B3108A	3108A	22 AWG, 3 pair

Can

Tinned copper, polyethylene insulated, twisted pairs. Overall Beldfoil® aluminium-polyester shield with Z-fold®. 24AWG stranded tinned copper drain wire. Overall tinned copper braid shield (90% coverage) Chrome PVC jacket.

Anixter No.	Belden No.	Description
B9841	9841	24 AWG, 1 pair, Grey PVC
B9842	9842	24 AWG, 2 pair, Grey PVC
B9843	9843	24 AWG, 3 pair, Grey PVC

LSNH

B9841-LSNH	9841NH	24 AWG, 1 pair, Grey LSNH
B9842-LSNH	9842NH	24 AWG, 2 pair, Grey LSNH

LSNH with Steel Wire Armour

B9841-LSNH-SWA	9841LS	24 AWG, 1 pair, Grey LSNH with SWA
B9842-LSNH-SWA	9842LS	24 AWG, 2 pair, Grey LSNH with SWA

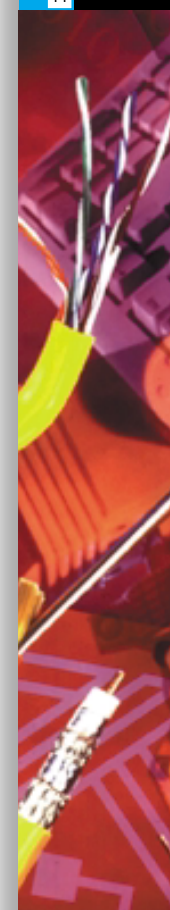
RS-422

Tinned copper, twisted pairs: Overall Beldfoil® aluminium-polyester shield. 24 AWG stranded tinned copper drain wire. Overall tinned copper braid shied (90% coverage). Chrome PVC jacket.

Anixter No.	Belden No.	Description
B9804	9804	28AWG, 2pr, polypropylene.
B8102	8102	24AWG, 2pr, datalene

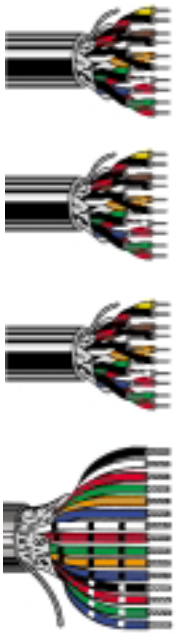
Individual Shielded aluminium polyester shield, 24 AWG

Anixter No.	Belden No.	Description
B9829	9829	24AWG, 2pr, polyethylene
B9729	9729	24AWG, 2pr, datalene



INDUSTRIAL DATA

RS-232 (Multi-Pair)



Tinned copper, S-R PVC insulated, twisted pairs, Overall Beldfoil® aluminium- polyester shield. 24AWG stranded tinned copper drain wire. Chrome PVC jacket.

Anixter No.	Belden No.	Description
B9501	9501	24 AWG, 1 pair
B9502	9502	24 AWG, 2 pair
B9503	9503	24 AWG, 3 pair
B9504	9504	24 AWG, 4 pair
B9505	9505	24 AWG, 5 pair
B9506	9506	24 AWG, 6 pair
B9507	9507	24 AWG, 7 pair
B9508	9508	24 AWG, 8 pair
B9509	9509	24 AWG, 9 pair
B9510	9510	24 AWG, 10 pair
B9515	9515	24 AWG, 15 pair
B9519	9519	24 AWG, 19 pair
B9525	9525	24 AWG, 25 pair
B9550	9550	24 AWG, 50 pair
LSNH		
B9501-LSNH	9501NH	24 AWG, 1 twisted pair, LSNH
B9502-LSNH	9502NH	24 AWG, 2 twisted pair, LSNH
B9503-LSNH	9503NH	24 AWG, 3 twisted pair, LSNH
B9504-LSNH	9504NH	24 AWG, 4 twisted pair, LSNH
B9506-LSNH	9506NH	24 AWG, 6 twisted pair, LSNH
B9508-LSNH	9508NH	24 AWG, 8 twisted pair, LSNH
LSNH With Steel Wire Armour		
B9502-LSNH-SWA	9502LS	24 AWG, 2 twisted pair, LSNH with SWA

RS-232 (Multi-Conductor)

PVC

Anixter No.	Belden No.	Description
B9533	9533	24AWG, 3 conductor
B9534	9534	24AWG, 4 conductor
B9535	9535	24AWG, 5 conductor
B9536	9536	24AWG, 6 conductor
B9537	9537	24AWG, 7 conductor
B9538	9538	24AWG, 8 conductor
B9539	9539	24AWG, 9 conductor
LSNH		
B9534-LSNH	9534NH	24 AWG, 4 conductor, LSNH
B9536-LSNH	9536NH	24 AWG, 6 conductor, LSNH

OPTICAL FIBRE

Interconnection Indoor cable - FRNC/LSZH - Tight Buffered 900□m fibre

Flame retardency: IEC 332-2
Temperature Storage/Installation/Operation: (-30 to +70 C)/(-5 to +50 C)/(-5 to +55 C)
Pulling tension: max.400N.
Cable Dimension: 2.8 x 5.7 +/- 0.2 mm (Zip-cord cable)
Jacket colour: Orange

Anixter No.	Belden Venlo No.	Description
370-924-6LS8-02	46658	2 fibres, 62.5□m/125□m, Zipcord
370-924-5LS8-02	46657	2 fibres, 50□m/125□m, Zipcord

Distribution Indoor cable - FRNC/LSZH - Tight Buffered 900□mm fibre

Flame retardency: IEC 332-2
Temperature Storage/Installation/Operation: (-30 to +70 C)/(-5 to +50 C)/(-5 to +55 C)
Pulling tension: 4/6/8/12/16/24 (fibres): max. 400N/450N/450N/500N/500N/600N.
Cable Diameter (Nominal): 4/6/8/12/16/24 fibres: 4.8mm/5.3mm/5.3mm/7.0mm/8.0mm/9.0mm
Jacket colour: Orange

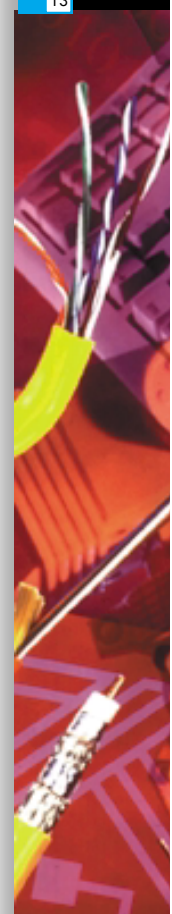
Anixter No.	Belden Venlo No.	Description
370-921-6LS8-04	49947	4 fibres, 62.5□m/125□m
370-921-6LS8-06	49948	6 fibres, 62.5□m/125□m
370-921-6LS8-12	49950	12 fibres, 62.5□m/125□m
370-921-5LS8-16	49477	16 fibres, 50□m/125□m
370-921-5LS8-24	49942	24 fibres, 50□m/125□m
370-921-5LS8OM3-04	50522	6 fibres, 50□m/125□m **OM3**
370-921-5LS8OM3-12	50525	12 fibres, 50□m/125□m **OM3**

Distribution In/Outdoor cable - FRNC/LSZH - Tight Buffered 900□m fibre "INTEX"

Flame retardency: IEC 332-1
Temperature Storage/Installation/Operation: (-30 to +70 C)/(-5 to +50 C)/(-30 to +70 C)
Pulling tension: 4/6/8/12/24 (fibres): max. 400N/450N/500N/600N.
Cable Diameter (Nominal): 4/6/12/24 (fibres) 5.4 mm/5.9 mm/7.6 mm/9.6 mm
Jacket colour: Orange

Anixter No.	Belden Venlo No.	Description
370-922-6LS8-06	49481	6 fibres, 62.5□m/125□m
370-922-6LS8-12	49483	12 fibres, 62.5□m/125□m
370-922-5LS8-06	49486	6 fibres, 50□m/125□m
370-922-5LS8-12	49488	12 fibres, 50□m/125□m
370-922-5LS8OM3-06	50518	6 fibres, 50□m/125□m **OM3**
370-922-5LS8OM3-12	50519	12 fibres, 50□m/125□m **OM3**

Contact Anixter for other fibre counts.



OPTICAL FIBRE

Single Loose Tube Out/Indoor cable - FRNC/LSZH - Bare 250□m fibre with standard rodend protection

Flame retardency: IEC 332-3C
Temperature Storage/Installation/Operation: (-30 to +70 C)/(-5 to +50 C)/(-30 to +70 C)
Pulling tension single tube 3.0 mm: max.700N. Pulling tension single tube 4.2 mm: max. 1400N.
Fibre tube (2 to 12 fibres): 3.0+/-0.2 mm. Fibre tube(16 to 24 fibres): 4,2+/-0,2 mm
Cable Diameter (2 to 12 fibres): 5.6 mm/5.9 mm m (16 to 24 fibres) 8.7 mm/9.0 mm. (Nominal/Maximal)
Jacket colour: Orange

Anixter No.	Belden Venlo No.	Description
370-322-6LS8-04	46634	4 fibres, 62.5□m/125□m
370-322-6LS8-06	46635	6 fibres, 62.5□m/125□m
370-322-6LS8-08	46636	8 fibres, 62.5□m/125□m
370-322-6LS8-12	46638	12 fibres, 62.5□m/125□m
370-322-6LS8-16	43852	16 fibres, 62.5□m/125□m
370-322-6LS8-24	43855	24 fibres, 62.5□m/125□m
370-322-5LS8-04	46627	4 fibres, 50□m/125□m
370-322-5LS8-06	46628	6 fibres, 50□m/125□m
370-322-5LS8-08	46629	8 fibres, 50□m/125□m
370-322-5LS8-12	46631	12 fibres, 50□m/125□m
370-322-5LS8-16	46651	16 fibres, 50□m/125□m
370-322-5LS8-24	43854	24 fibres, 50□m/125□m
370-322-5LS8OM3-04	50532	4 fibres, 50□m/125□m **OM3**
370-322-5LS8OM3-08	50510	8 fibres, 50□m/125□m **OM3**
370-322-5LS8OM3-12	50503	12 fibres, 50□m/125□m **OM3**
370-322-5LS8OM3-16	50528	16 fibres, 50□m/125□m **OM3**
370-322-5LS8OM3-24	50529	24 fibres, 50□m/125□m **OM3**

Also available:
CABLES WITH IMPROVED RODEND PROTECTION (GLASS YARNS)
CABLES WITH STEEL WIRE ARMOURING

Contact Anixter for more info or datasheets of all cables.

TECHNICAL INFORMATION

Equivalency Chart for American Wire Gauge (AWG)

AWG Size	Composition of Conductor	Approx O.D mm	Section mm2
40	Solid	0.079	0.005
39	Solid	0.089	0.006
38	Solid	0.0102	0.008
37	Solid	0.114	0.010
36	Solid	0.127	0.013
	7/44	0.153	0.014
35	Solid	0.142	0.016
34	Solid	0.160	0.020
	7/42	0.191	0.022
33	Solid	0.180	0.025
32	Solid	0.209	0.032
	7/40	0.203	0.034
	19/44	0.229	0.039
31	Solid	0.226	0.040
30	Solid	0.255	0.051
	7/38 19/42	0.305 0.305	0.056 0.060
29	Solid	0.287	0.064
28	Solid	0.320	0.080
	7/36	0.381	0.071
	19/42	0.406	0.093
27	Solid	0.361	0.102
	7/35	0.457	0.111
26	Solid	0.404	0.127
	7/34	0.483	0.140
	10/36	0.533	0.127
	19/38	0.508	0.153
25	Solid	0.455	0.163
24	Solid	0.511	0.203
	7/32	0.610	0.226
	10/34	0.584	0.200
	19/36	0.610	0.239
	41/40	0.584	0.201
23	Solid	0.574	0.259
22	Solid	0.643	0.322
	7/30	0.762	0.352
	19/34	0.787	0.380
	26/36	0.762	0.327

AWG Size	Composition of Conductor	Approx O.D mm	Section mm2
21	Solid	0.724	0.412
20	Solid	0.813	0.514
	10/30	0.890	0.504
	19/32	0.940	0.612
	26/34	0.914	0.520
	41/36	0.914	0.533
19	Solid	0.912	0.653
18	Solid	1.020	0.816
	7/26	1.220	0.891
	16/30	1.200	0.808
	19/30	1.240	0.957
	41/34	1.200	0.819
	65/34	1.200	0.845
17	Solid	1.150	1.039
16	Solid	1.290	1.300
	7/26	1.520	1.420
	16/30	1.470	1.216
	19/30	1.500	1.310
	41/34	1.500	1.300
	65/34	1.500	1.365
15	Solid	1.450	1.651
14	Solid	1.630	2.070
	7/26	1.850	2.260
	16/30	1.850	1.930
	19/30	1.850	2.060
	41/34	1.850	2.100
13	Solid	1.830	2.630
12	Solid	2.050	3.290
	7/20	2.440	3.610
	19/25	2.360	3.070
	65/30	2.410	3.270
	165/34	2.410	3.300
11	Solid	2.300	4.155
10	Solid	2.600	5.230
	37/26	2.920	4.710
	65/28	2.950	5.230
	105/30	2.950	5.35

Nominal Temperature Range/Insulating and Jacketing Compounds

Compound	Normal Low	Normal High	Special Low	Special High
Chlorosulfonated Polyrthylene (Hypalon•)	-20°C	90°C	-40°C	105°C
EPDM (Ethylene-Propylene-Diene Monomer)	-55°C	105°C	–	150°C
Neoprene	-20°C	60°C	-55°C	90°C
Polyethylene (Solid and Foam)	-60°C	80°C	–	–
Polypropylene (Solid and Foam)	-40°C	105°C	–	–
Rubber	-30°C	60°C	-55°C	75°C
FEP Teflon•	-70°C	200°C	–	–
PVC	-20°C	80°C	-55°C	105°C
Silicone**	-80°C	150°C	–	200°C
Halar◊	-70°C	150°C	–	–
Tefzel•	-65°C	150°C	–	–
TFE Teflon	-70°C	260°C	–	–
CPE	-35°C	90°C	-45°C	105°C
Solef*/KynarΔ	-20°C	150/125°C	-45°C	150/150°C
LSZH	-20°C	75°C	–	–

◊ Ausimont Corporation trademark.

•DuPont trademark.

**General Electric trademark.

Δ Pennwalt Corporationtrademark.

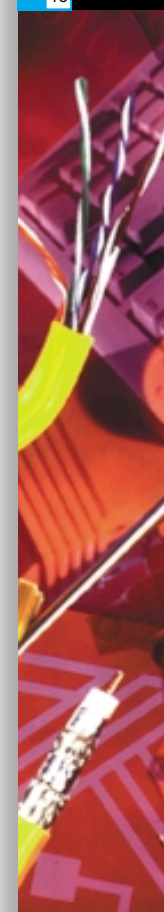
* Solvay trademark.

Comparative Properties of Plastic/Insulating and Jacket Compounds

	PVC	Low-Density Polyethylene	Cellular Polyethylene	High-Density Polyethylene	Poly-propylene	Cellular Polypropylene	Poly-urethane	Nylon	CPE	LSZH
Oxidation Resistance	E	E	E	E	E	E	E	E	E	E
Heat Resistance	G-E	G	G	E	E	E	G	E	E	G-E
Oil Resistance	F	G-E	G	G-E	F	F	E	E	E	G-E
Low Temperature Flexibility	P-G	E	E	E	P	P	G	G	E	F-G
Weather, Sun Resistance	G-E	E	E	E	E	E	G	E	E	G
Ozone Resistance	E	E								E
Abrasion Resistance	F-G	G	F	E	F-G	F-G	O	E	E-O	F-G
Electrical Properties	F-G	E	E	E	E	E	P	P	E	G
Flame Resistance	E	P	P	P	P	P	P	P	E	E
Nuclear Radiation Resistance	F	G-E	G	G-E	F	F	G	F-G	O	F
Water Resistance	F-C	E	C	C	C	E	P-G	P-F	O	G
Acid Resistance	G-E	G-E	G-E	E	E	E	F	P-F	E	P-F
Alkali Resistance	G-E	G-E	G-E	E	E	E	P	E	E	G
Gasoline, Kerosene, Etc. (Aliphatic Hydrocarbons) Resistance	P	G-E	G	G-E	P-F	P	P-G	G	E	F
Benzol, Toluol, etc. (Aromatic Hydrocarbons) Resistance	P-F	P	P	P	P-F	P	P-G	G	G-E	P-F
Degreaser Solvents (Halogenated Hydrocarbons) Resistance	P-F	G	G	G	P	P	P-G	G	E	P
Alcohol Resistance	G-E	E	E	E	E	E	P-G	P	E	G
Underground Burial	P-G	G	N/A	E	N/A	N/A	G	P	E-O	F

P = Poor F = Fair G = Good E= Excellent O= Outstanding

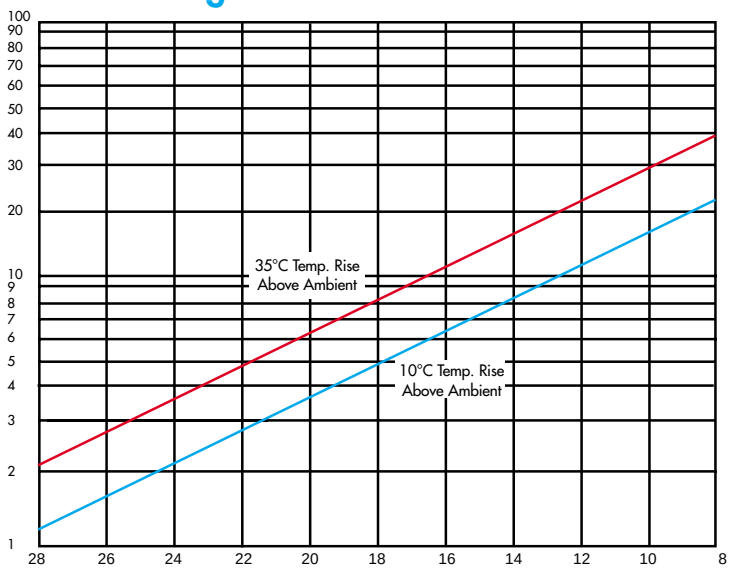
These ratings are based on average performance of general purpose compounds. Any given property can usually be improved by the use of selective compounding.



Comparative Properties of Fluoropolymers/Insulating and Jacket Compounds

	FEP Teflon	Tefzel (ETFE)	TFE Teflon	Solef/Kynar (PVDF)/PVF	Halar (E-CTFE)
Oxidation Resistance	O	E	O	O	O
Heat Resistance	O	E	O	O	O
Oil Resistance	O	E	E-O	E	O
Low Temperature Flexibility	O	E	O	F	O
Weather, Sun Resistance	O	E	O	E-O	O
Ozone Resistance	E	E	O	E	E
Abrasion Resistance	E	E	O	E	E
Electrical Properties	E	E	E	G-E	E
Flame Resistance	O	G	E	E	E-O
Nuclear Radiation Resistance	P-G	E	P	E	E
Water Resistance	E	E	E	E	E
Acid Resistance	E	E	C	G-E	E
Alkali Resistance	E	E	E	E	E
Gasoline, Kerosene, Etc. Aliphatic Hydrocarbons Resistance	E	E	E	E	E
Benzol, Toluol, Etc. Halogenated Hydrocarbons Resistance	E	E	E	G-E	E
Degreaser Solvents (Halogenated Hydrocarbons Resistance	E	E	E	G	E
Alcohol Resistance	E	E	E	E	E
Underground Burial	E	E	E	E	E

Current Ratings for Belden Electronic Cables



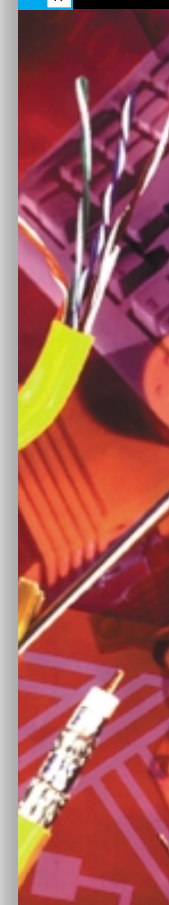
No. of Conductors**	Factors
1	1.6
2 – 3	1.0
4 – 5	.8
6 – 15	.7
16 – 30	.5

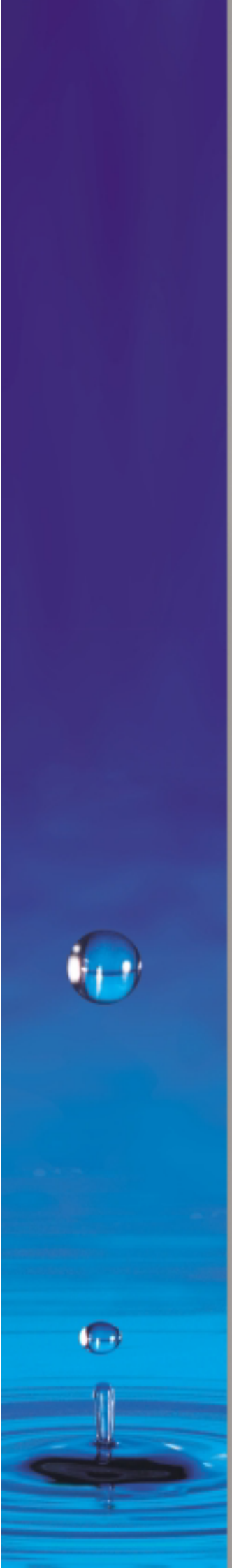
*Do not count shields unless used as a conductor.

The maximum continuous current rating for an electronic cable is limited by conductor size, number of conductors contained within the cable, maximum temperature rating of the cable, and environmental conditions such as ambient temperature and air flow. To use the current capacity chart, first determine conductor size, temperature rating, and number of conductors from the applicable product description for the cable of interest.

Next, find the current value on the chart for the proper temperature rating and conductor size. To calculate the maximum current rating/conductor, multiply the chart value by the appropriate conductor factor. The chart assumes cable is surrounded by still air at an ambient temperature of 25 degrees C. Current values are in RMS Amperes and are valid for copper conductors only.

Note: Current ratings are intended as general guidelines for low power electronic communications and control applications. Current ratings for power applications generally are set by regulatory agencies such UL, CSA, NEC and others.





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PRINTED IN SPAIN - ANIXTER 12/03